MISSION

Provide a modernized, real-time meteorological capability over an extended battlespace; provide vital target-area meteorological information for the employment of "smart" weapons, ensuring proper munition selection and optimal aim point calculations.

DESCRIPTION AND SPECIFICATIONS

The Meteorological Measuring Set (Profiler) (MMS-P), AN/TMQ-52, integrates profiles from ground-based meteorological sensors with meteorological satellite data to provide vertical profiles of the atmosphere. The system incorporates a suite of meteorological sensors and associated software/models that provide artillery forces with current or expected weather conditions, along the projectile trajectory and within the target area. The system's software is capable of providing artillery meteorological messages every 30 minutes based on an atmospheric model. The system will process the meteorological data as it is received and convert it into proper message formats.

The MMS-P is a tactical automated meteorological system, housed in a Standard Integrated Command Post System (SICPS) shelter, mounted on a High Mobility Multipurpose Wheeled Vehicle (HMMWV). The system will interface with:

- Advanced Field Artillery Tactical Data Systems (AFATDS).
- Multiple Launch Rocket System (MLRS) Fire Direction System (FDS).
- Interim Fire Support Automation System (IFSAS).
- the Integrated Meteorological System (IMETS).

The Profiler will use Joint Technical Architecture–Army Defense Information Infrastructure Common Operating Environment hardware and software.

FOREIGN COUNTERPART

No known foreign counterpart

FOREIGN MILITARY SALES

None

PROGRAM STATUS

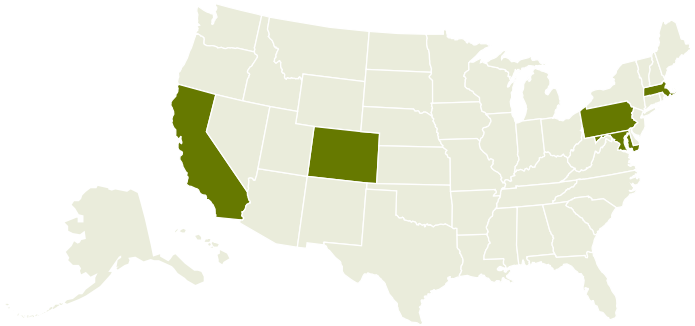
- Concept exploration phase completed.
- **3QFY00** Milestone I/II, engineering and manufacturing development (EMD) decision obtained; Released request for proposal.
- **4QFY00** Awarded cost plus incentive fee contract for the EMD effort.

PROJECTED ACTIVITIES

- **1QFY01** Post award conference; Preliminary design review.
- **3QFY01** Critical design review.

PRIME CONTRACTORS

Environmental Technologies Group, Inc. (Baltimore, MD)



* See appendix for list of subcontractors